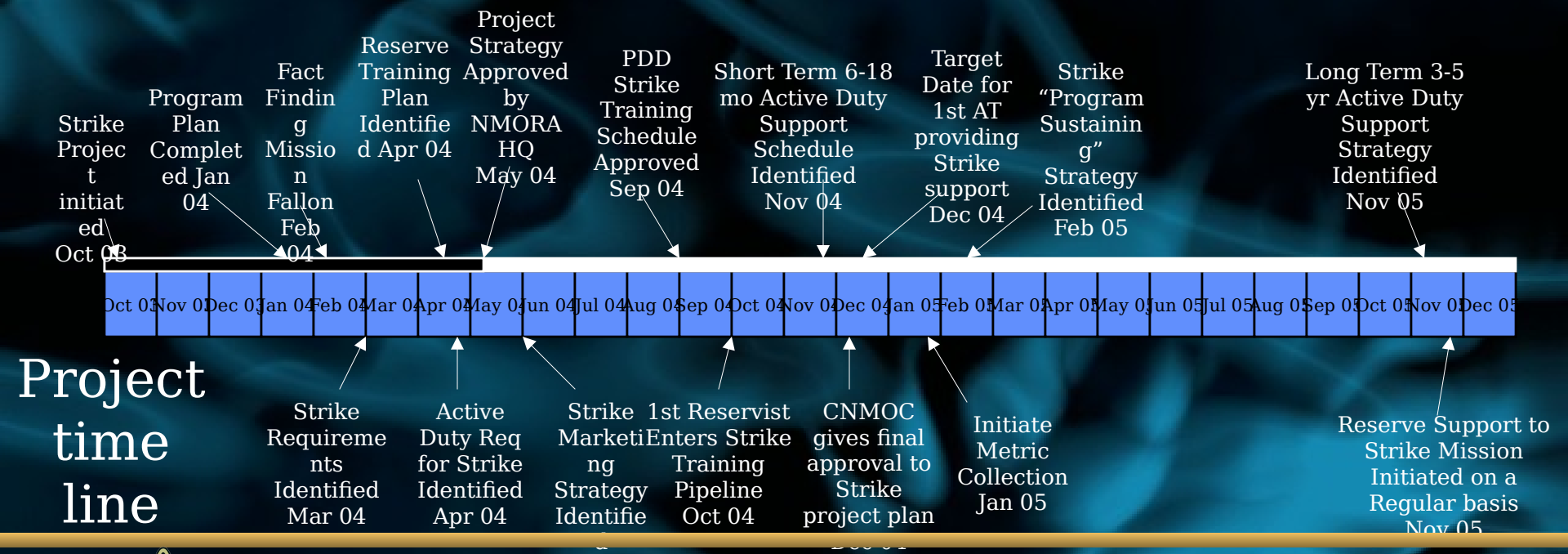
Reserve METOC Support to the Strike Warfare Mission Area

- **This presentation contains the preliminary implementation plan for Reserve Support to the Strike Warfare Mission area**

- **Project Officer: CAPT Perry Tuey**
- **Date: 5/1/04**


Strike Project initiated Oct 03
Program Plan Completed Jan 04
Fact Finding Mission Fallon Feb 04
Reserve Training Plan Identified Apr 04
Project Strategy Approved by NMORA HQ May 04
PDD Strike Training Schedule Approved Sep 04
Short Term 6-18 mo Active Duty Support Schedule Identified Nov 04
Target Date for 1st AT providing Strike support Dec 04
Strike "Program Sustaining" Strategy Identified Feb 05
Long Term 3-5 yr Active Duty Support Strategy Identified Nov 05
Oct 03
Nov 03
Dec 03
Jan 04
Feb 04
Mar 04
Apr 04
May 04
Jun 04
Jul 04
Aug 04
Sep 04
Oct 04
Nov 04
Dec 04
Jan 05
Feb 05
Mar 05
Apr 05
May 05
Jun 05
Jul 05
Aug 05
Sep 05
Oct 05
Nov 05
Dec 05
Project time line
Strike Requirements Identified Mar 04
Active Duty Req for Strike Identified Apr 04
Strike Marketing Strategy Identifie
May 04
1st Reservist Enters Strike Training Pipeline Oct 04
CNMOC gives final approval to Strike project plan
Initiate Metric Collection Jan 05
Reserve Support to Strike Mission Initiated on a Regular basis Nov 05

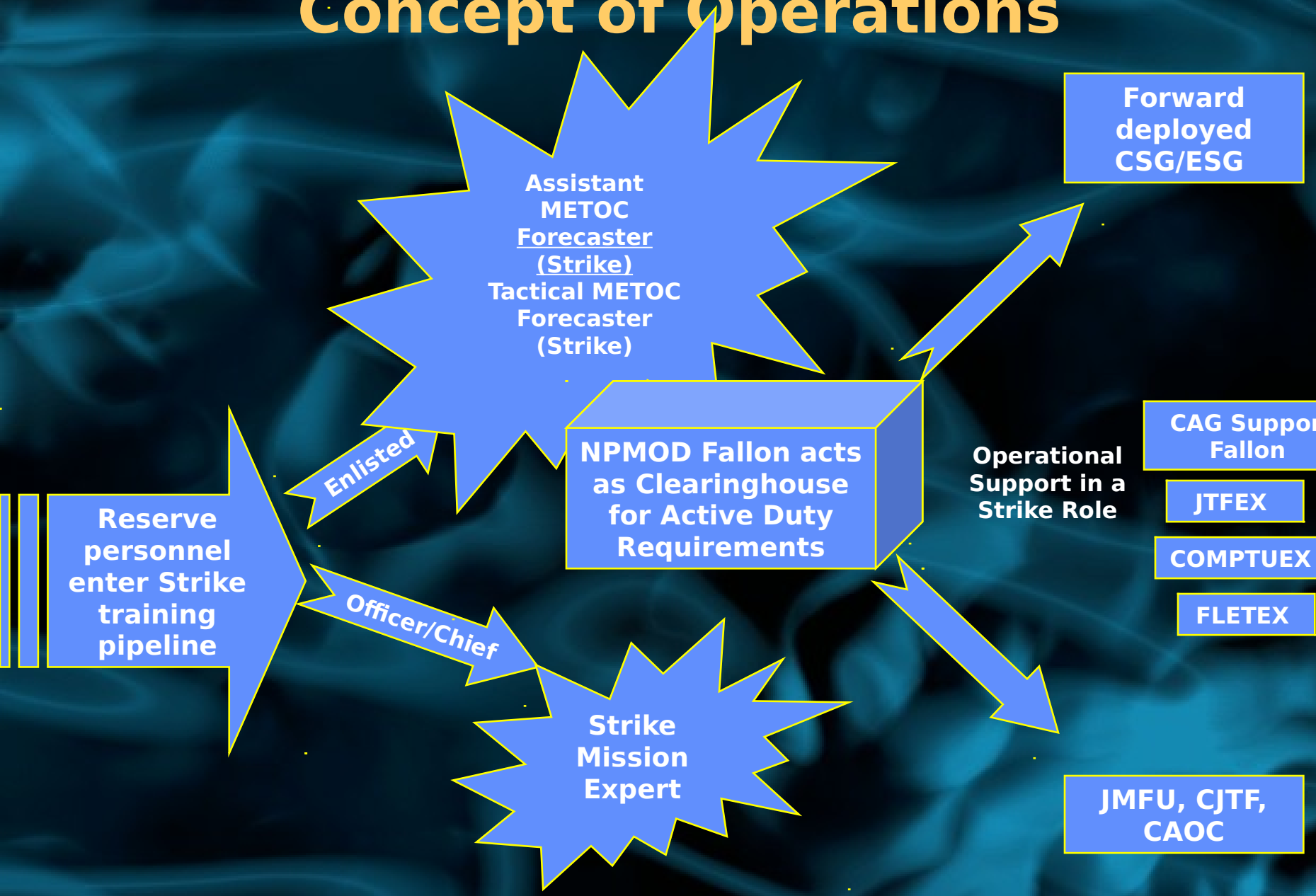
NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND

COMNAVMETOCCO

Project Vision

To provide Strike Warfare mission-capable Reservists, within specified and predictable parameters, who can efficiently and effectively address the periodic and emergent Active Duty METOC requirements of the Strike Warfare mission

Concept of Operations



Project Schedule

The project milestones are delineated below. Preliminary completion dates have been established f

Target Completion Date	Major Milestone	May 2004 Assessment
Jan-04	Program Plan Development	Completed
Mar-04	Reserve Personnel Skills Identification	Completed
	Customer Needs Analysis	
Mar-04	Identify Reserve METOC Strike Requirements	Completed
Mar-04	Identify Reservist Strike Skillset requirements	Completed
Jul-04	Identify Active duty Manning Requirements	On track
Mar-04	Reserve Personnel Skills Identification	Completed
Sep-04	Reserve Personnel Identification and Recruiting	On track
Sep-04	Reserve Personnel Skill Development	On track
	Reserve Program Support to Strike Warfare Implementation	
Dec-03	Develop Project Metrics	Completed
Dec-04	Develop Short Term Active Duty Support Strategy	Not started
Nov-05	*Develop Long Term Active Duty Support Strategy	Not started

*Full implementation of this project plan is anticipated in November 2005. This is an artificially established date and has not been imposed by CNMOC. It allows the Project Officer to maintain control of the project through final implementation.

Strike Warfare Mission METOC Support Skills

Basic Strike Warfare skill sets and training requirements

What we seek to deliver to the Active Duty

- Predictability
- Reliability
- Periodicity
- Efficiency
- Effectiveness

Active Duty wants someone who is:

A Tactical 7412

A True Strike Warfare Expert

Reserve Personnel Recruitment Plan

- Solicit nationwide NMORA and Surface-side database for interested & motivated personnel

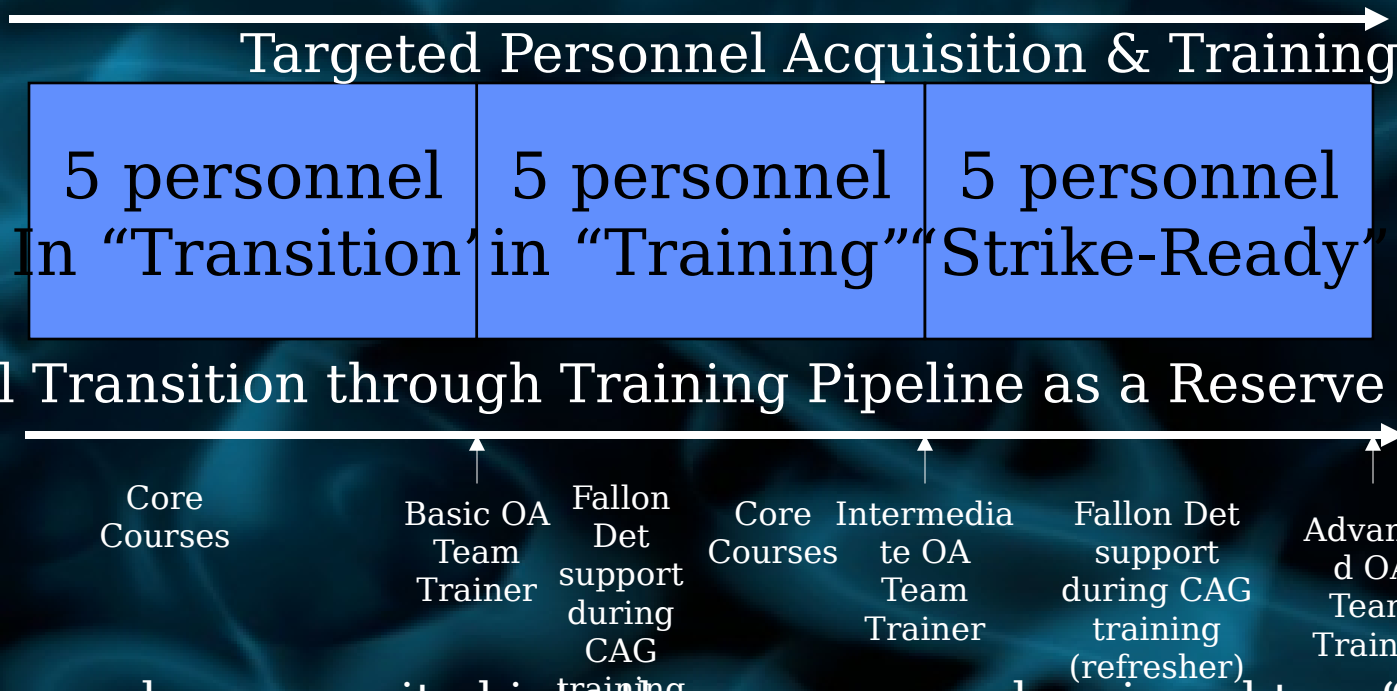
- Seeking five to ten AG2 or AG1 Reserve personnel to fill "Assistant METOC Forecaster (strike)" and "Tactical METOC Forecaster (strike)" positions
  - Augment strike mission specialists at Fallon, NV during CAG workup
  - Provide personnel pool of surge-capable assistant and tactical METOC forecasters capable of supporting a forward deployed CSG/ESG in a strike mission role

- Seeking three to five AGC, AGCS, LTJG, LT, or LCDR Reserve personnel
  - Fill "Reserve METOC Strike Warfare Mission Expert" positions with the intent of being "recall ready" to support the strike mission in de needs er

Targeted Personnel Acquisition & Training Plan

5 personnel	5 personnel	5 personnel
In "Transition"	in "Training"	"Strike-Ready"

Reserve Strike Training Concept

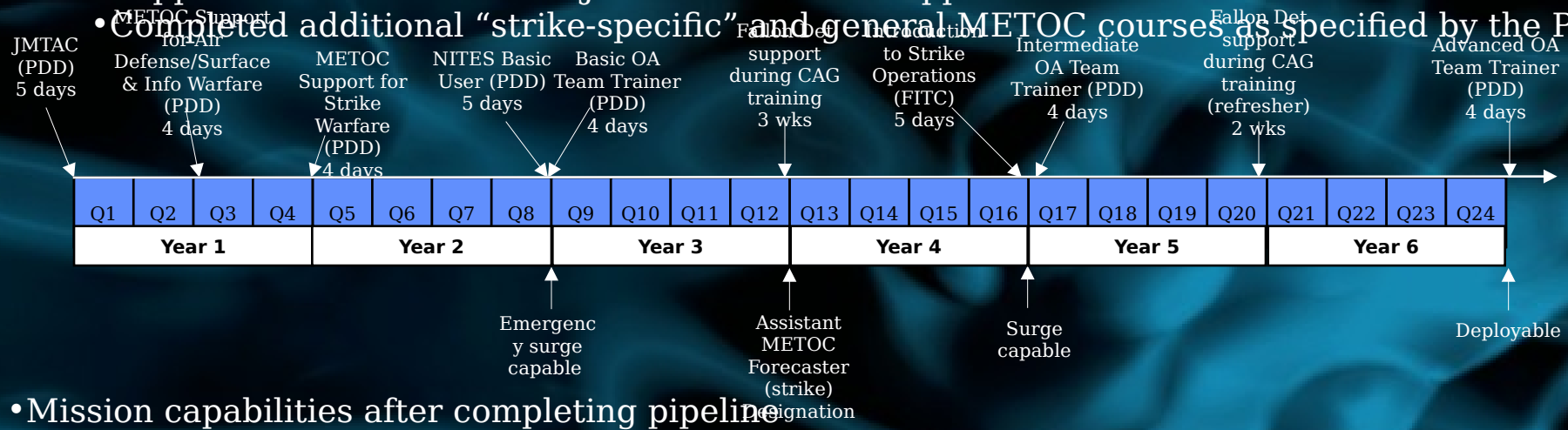

Targeted Personnel Acquisition & Training Plan
5 personnel In "Transition"
5 personnel in "Training"
5 personnel "Strike-Ready"
ersonnel Transition through Training Pipeline as a Reserve "OA Division
Core Courses
Basic OA Team Trainer
Fallon Det support during CAG training
Core Courses
Intermediate OA Team Trainer
Fallon Det support during CAG training (refresher)
Advanced OA Team Trainer

- Personnel are recruited into the program and assigned to a "regional" Reserve OA Division team
  - 1 Officer, 1 Chief or Forecaster, 2 non-7412 enlisted personnel (who meet minimum strike track prerequisites)
- Personnel take "core" courses when available
- Regional Teams meet during a joint AT/ADT to participate in OA Team trainers and Fallon Det training
- As team progresses in knowledge and skill set, they progress, as a team, through Basic, Intermediate, and finally the Advanced OA Team trainer

Assistant METOC Forecaster (strike) Prerequisites and Training Pipeline (Enlisted)

Assistant METOC Forecaster (strike)

- Mandatory
  - Working on/or attained AFDO certification
  - Completed requirements for C school, which includes Intro to Forecasting and Oceanography Mods 1, 2, and 3
  - Broad METOC knowledge
  - Able to produce TAWS and AREPS products
  - Completed Assistant METOC Forecaster (strike) training pipeline (See Enlisted Reserve Strike Training Syllabus for further details)
  - Completed CAG portion of training track within the last 2 years (initial or refresher)
  - Secret Clearance
- Desirable
  - Working on/or attained 7412 certification
  - AG2 or AG1
  - Supported a COMPTUEX or JTFEX in a Strike Support role
  - Completed additional "strike-specific" and general METOC courses as specified by the PDC

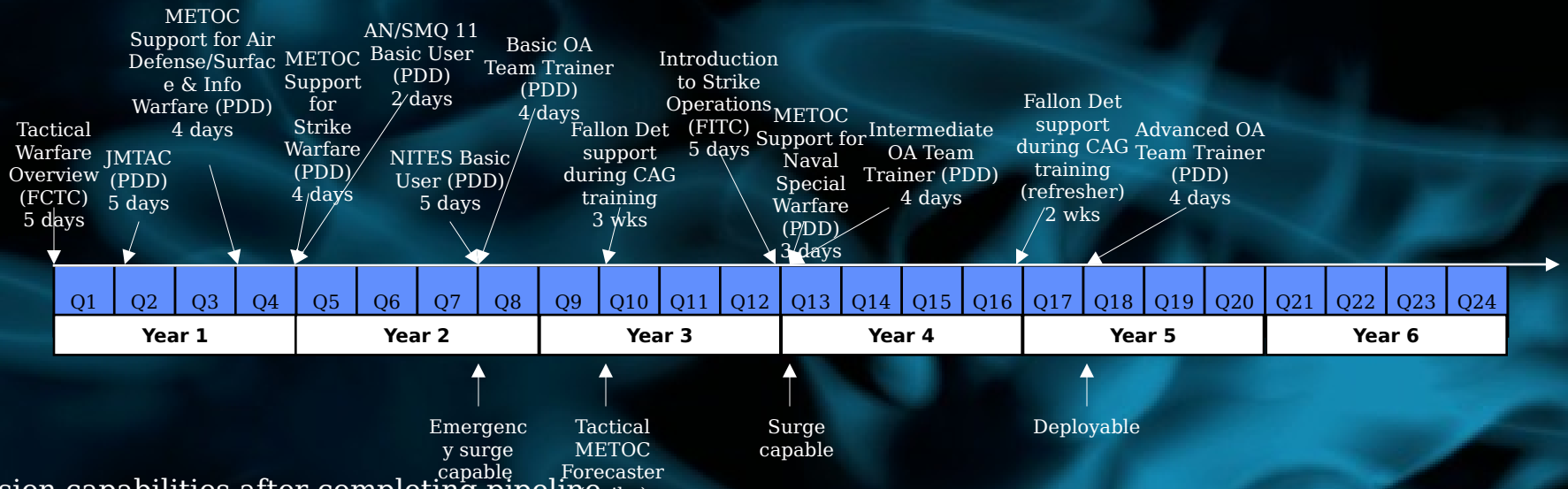

JMTAC (PDD) 5 days
METOC Support for Air Defense/Surface & Info Warfare (PDD) 4 days
METOC Support for Strike Warfare (PDD) 4 days
NITES Basic User (PDD) 5 days
Basic OA Team Trainer (PDD) 4 days
Fallon Det support during CAG training 3 wks
Introduction to Strike Operations (FITC) 5 days
Intermediate OA Team Trainer (PDD) 4 days
Fallon Det support during CAG training (refresher) 2 wks
Advanced OA Team Trainer (PDD) 4 days
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24
Year 1
Year 2
Year 3
Year 4
Year 5
Year 6
Emergency surge capable
Assistant METOC Forecaster (strike) Designation
Surge capable
Deployable

- Mission capabilities after completing pipeline
  - Able to provide services in 1 more more strike mission tasks and quickly assimilate to other tasks
  - Able to provide strike training support at NPMOD Fallon during Carrier airwing training

Tactical METOC Forecaster (strike) Prerequisites and Training Pipeline (Enlisted)

Tactical METOC Forecaster (strike)

- Mandatory
  - Certified as an Assistant METOC Forecaster (strike)
  - Attained 7412 NEC
  - Completed Tactical METOC Forecaster (strike) training pipeline (See Enlisted Reserve Strike Training Syllabus for further details)
  - Completed CAG portion of training track within the last 2 years (initial or refresher)
  - Secret Clearance
- Desirable
  - Degree in Meteorology or Oceanography
  - AG1 or AGC
  - Supported a COMPTUEX or JTFEX in a Strike Support role
  - Completed additional, general METOC courses as specified by the PDC

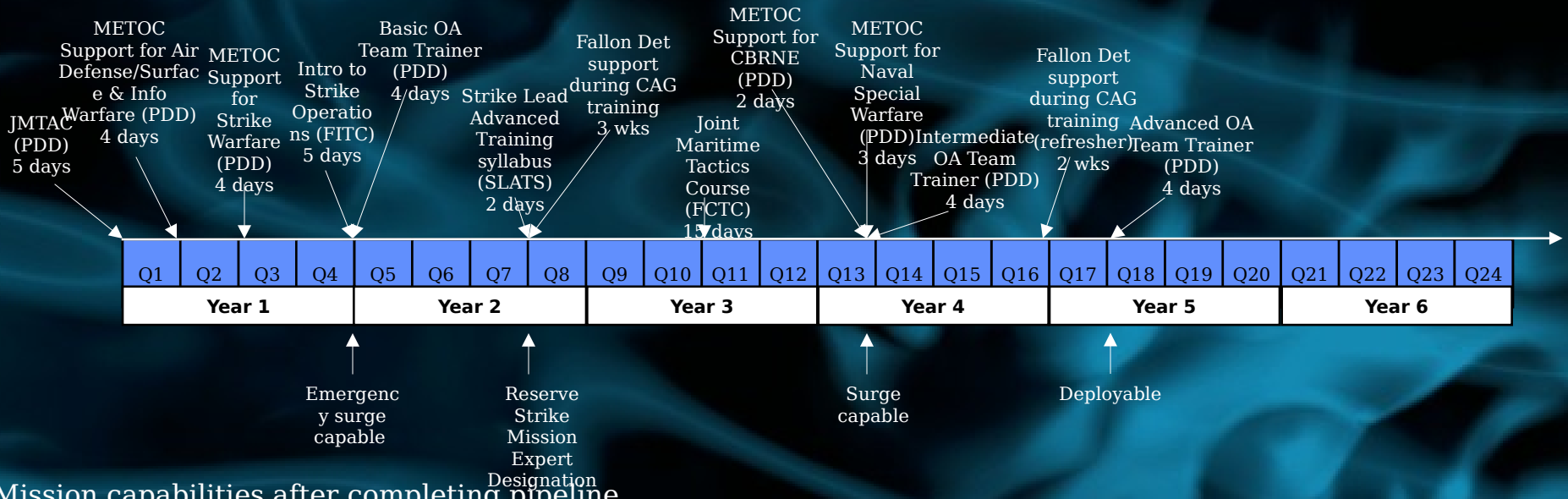

Tactical Warfare Overview (FCTC) 5 days
JMTAC (PDD) 5 days
METOC Support for Air Defense/Surface & Info Warfare (PDD) 4 days
METOC Support for Strike Warfare (PDD) 4 days
AN/SMQ 11 Basic User (PDD) 2 days
NITES Basic User (PDD) 5 days
Basic OA Team Trainer (PDD) 4 days
Fallon Det support during CAG training 3 wks
Introduction to Strike Operations (FITC) 5 days
METOC Support for Naval Special Warfare (PDD) 3 days
Intermediate OA Team Trainer (PDD) 4 days
Fallon Det support during CAG training (refresher) 2 wks
Advanced OA Team Trainer (PDD) 4 days
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24
Year 1
Year 2
Year 3
Year 4
Year 5
Year 6
Emergency surge capable
Tactical METOC Forecaster (strike) Designation
Surge capable
Deployable

- Mission capabilities after completing pipeline
  - Able to provide tactical forecasts specific to the strike warfare mission
  - Able to provide strike training support at NPMOD Fallon during Carrier airwing training
  - When called upon to “surge” or “pulse” forward, able to provide strike mission forecasting support

Reserve Strike Mission Expert Prerequisites and Training Pipeline (Officer/Chief)

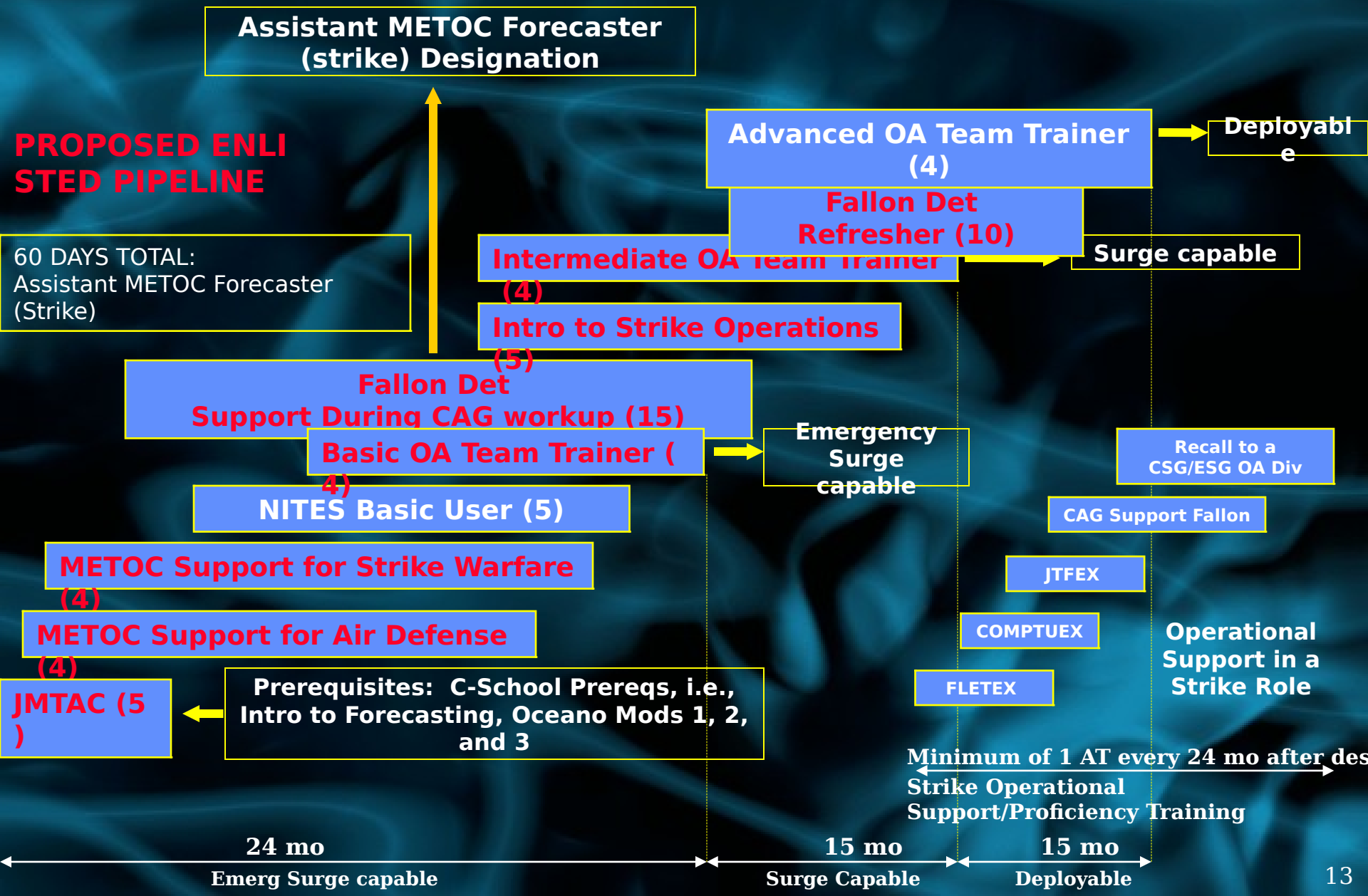
Reserve Strike Warfare Mission Expert

- Mandatory
  - Degree in Meteorology or Oceanography, or attained Tactical METOC Forecaster (strike) designation
  - Strong background in weather
  - Completed Reserve Strike Warfare Mission Expert training pipeline (See Officer/Chief Reserve Strike Training Syllabus for further details)
  - Completed CAG portion of training track within the last 2 years (initial or refresher)
  - Secret Clearance
- Desirable
  - Working on/or attained forecaster certification
  - Advanced Degree in Meteorology or Oceanography
  - AGC, AGCS, LT, or LCDR
  - Supported a COMPTUEX or JTFEX in a Strike Support role
  - Completed additional "strike-specific" and general METOC courses as specified by the PDC

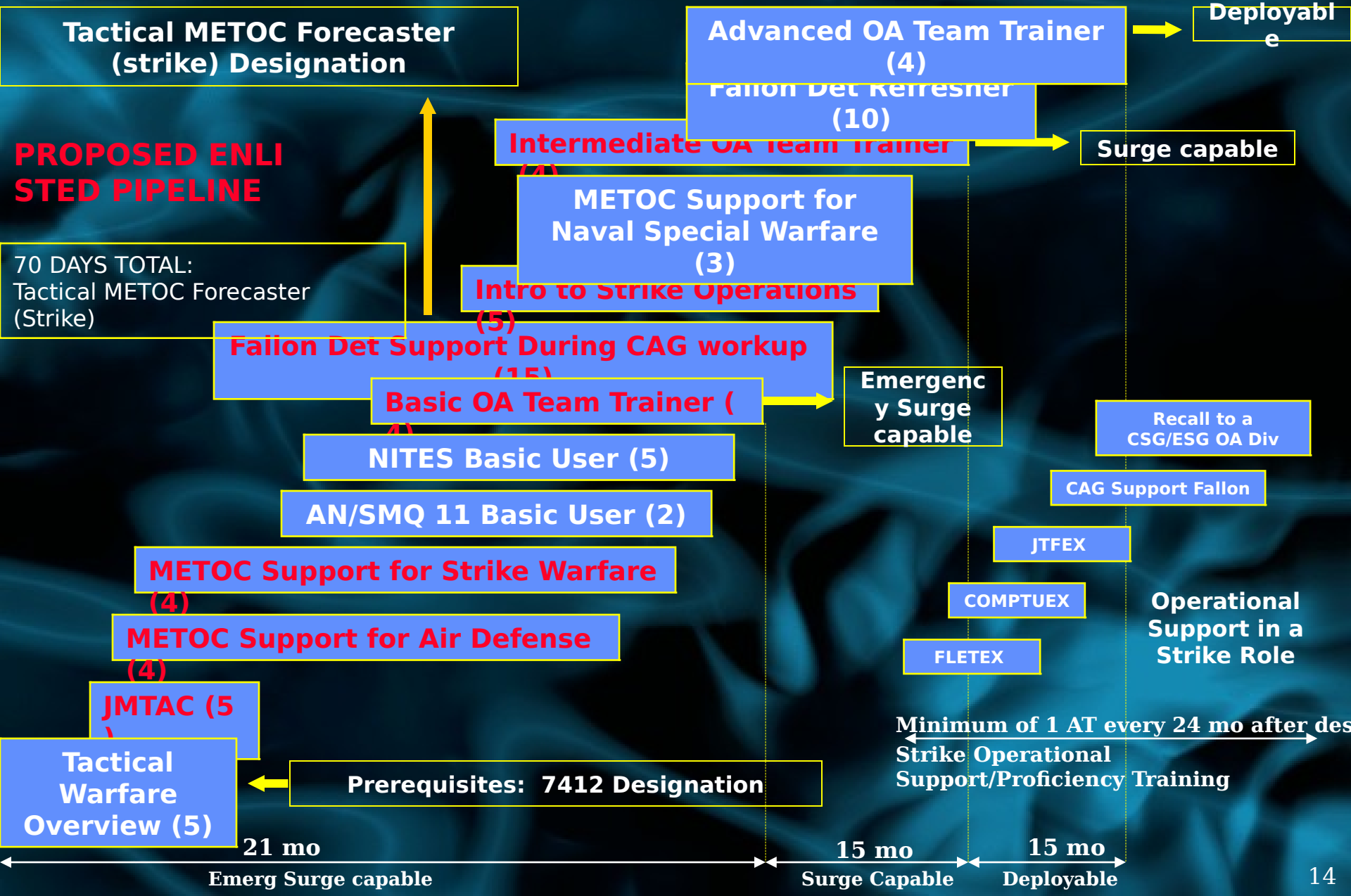

JMTAC (PDD) 5 days
METOC Support for Air Defense/Surface & Info Warfare (PDD) 4 days
METOC Support for Strike Warfare (PDD) 4 days
Intro to Strike Operations (FITC) 5 days
Basic OA Team Trainer (PDD) 4 days
Strike Lead Advanced Training syllabus (SLATS) 2 days
Fallon Det support during CAG training 3 wks
Joint Maritime Tactics Course (FCTC) 15 days
METOC Support for CBRNE (PDD) 2 days
METOC Support for Naval Special Warfare (PDD) 3 days
Intermediate OA Team Trainer (PDD) 4 days
Fallon Det support during CAG training (refresher) 2 wks
Advanced OA Team Trainer (PDD) 4 days
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24
Year 1
Year 2
Year 3
Year 4
Year 5
Year 6
Emergency surge capable
Reserve Strike Mission Expert Designation
Surge capable
Deployable

- Mission capabilities after completing pipeline
  - Able to provide strike-specific, tactical expertise as a member of a forward deployed JMFU, CJTF, or CAOC

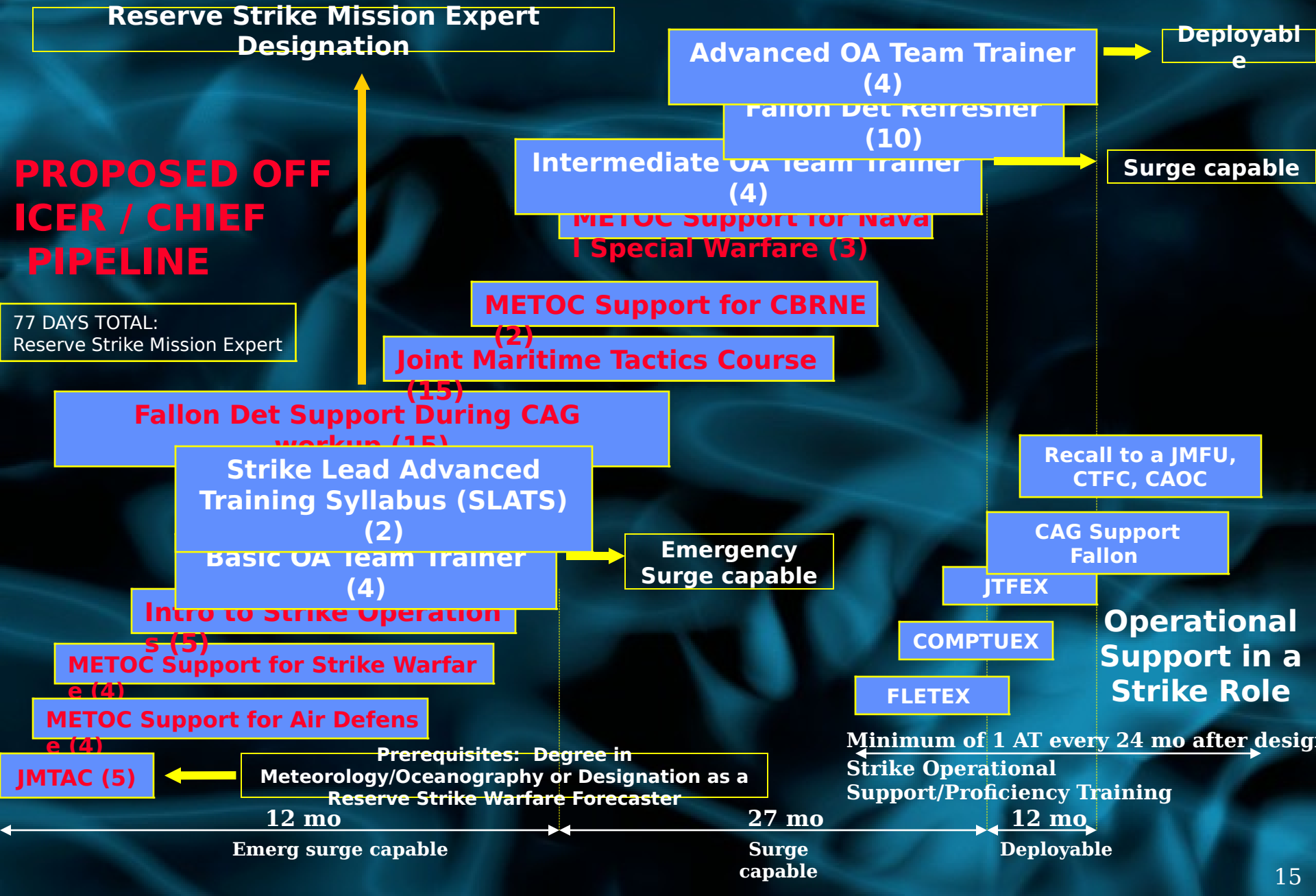
Reserve Assistant METOC Forecaster (Strike) Training Syllabus (Enlisted)



Reserve Tactical METOC Forecaster (Strike) Training Syllabus (Enlisted)



Reserve Strike Training Syllabus (Officer/Chief)


Reserve Strike Mission Expert Designation
Advanced OA Team Trainer (4)
Deployable
Fallon Det Refresher (10)
Intermediate OA Team Trainer (4)
Surge capable
METOC Support for Naval Special Warfare (3)
PROPOSED OFFICER / CHIEF PIPELINE
77 DAYS TOTAL:
Reserve Strike Mission Expert
METOC Support for CBRNE (2)
Joint Maritime Tactics Course (15)
Fallon Det Support During CAG workup (15)
Strike Lead Advanced Training Syllabus (SLATS) (2)
Recall to a JMFU, CTFC, CAOC
CAG Support Fallon
Basic OA Team Trainer (4)
Emergency Surge capable
JTFEX
Intro to Strike Operations (5)
COMPTUEX
Operational Support in a Strike Role
METOC Support for Strike Warfare (4)
FLETEX
METOC Support for Air Defense (4)
Minimum of 1 AT every 24 mo after design
JMTAC (5)
Prerequisites: Degree in Meteorology/Oceanography or Designation as a Reserve Strike Warfare Forecaster
Strike Operational Support/Proficiency Training
12 mo
Emerg surge capable
27 mo
Surge capable
12 mo
Deployable

Suggested Project Metrics

Measures of output can be expressed as numbers of:

- Exercises supported in which primary job duties specifically relate to the Strike Warfare mission
- Personnel signed up to support the Strike Warfare Project
- Individuals performing their Annual Training at a primary Strike Warfare Support Center such as Fallon, NV or NAS Lemoore
- Individuals recalled to support Strike Warfare
- Individuals receiving training in specialized Strike Warfare areas
- Individuals achieving certification in specialized Strike Warfare Mission planning tools
- Individuals attaining various PQS qualifications specific to the Strike Warfare Mission
- Letters (from customers) specifically praising the Reserve component support in a Strike Warfare operation

Backup slides

Strike Training Matrix

Double-click on spreadsheet to open up the full Excel file

See notes for a more detailed explanation of the training matrix

METOC Training Matrix - Carrier Strike Group

KEY	
PDD Course	
Outside Course	
Training NOT Applicable	
Mandatory Training	M
Recommended Training	R
	E
Onboard Training	O

		Course of Instruction	CID/CIN	Course Length	CSG Staff/METOC Officer	METOC Officer	OA LCPO	Tactical METOC Forecaster - STK/AD	Tactical METOC Forecaster - USW	Tactical METOC Forecaster - GEN	Asst. METOC Forecaster - STK/AD #1	Asst. METOC Forecaster - STK/AD #2	Asst. METOC Forecaster - STK/AD #3	Asst. METOC Forecaster - USW #1	Asst. METOC Forecaster - USW #2	Asst. METOC Forecaster - USW #3	Asst. METOC Forecaster - GEN/SYS #1	Asst. METOC Forecaster - GEN/SYS #2
BASIC PHASE - COMPLETE BY FEP	E	Joint Maritime Tactics Course (JMTC)	K-2G-3009	15	M	M													
	E	Global Command and Control Systems - Maritime Watch Officer	J-2G-2302	5	R	R													
	E	Tactical Warfare Overview	K-2G-0032	5			M	M	M	R									
	O	GI&S for the Warrior	TBD	2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	E	Joint METOC Tactical Applications Course (JMTAC)	S-5A-0010	5	M	M	M	M	M	M	M	M	M	M	M	M	R	R
	E	Senior METOC Officer Afloat (SMOA)	TBD	2	M	M	M												
	O	Basic Meteorological Satellite Interpretation	TBD	2	R	R	M	M	M	M	R	R	R	R	R	R	R	R	R
	O	Tactical Oceanography Review (TOR)	TBD	3	R	R	R	R	M	R	R	R	R	M	M	M	R	R	
	O	METOC Support for Air Defense/Surface & Information Warfare	TBD	4	M	M	M	M	R	R	M	M	M	R	R	R	R	R	
	O	METOC Support for Strike Warfare	TBD	4	R	M	M	M	R	R	M	M	M	R	R	R	R	R	
	O	METOC Support for Search and Rescue (SAR)	TBD	1	R	R	M	R	R	M	R	R	R	R	R	R	M	M	
	O	Naval Integrated Tactical Environmental System (NITES), AN/UMK-4(V)1 Basic User	TBD	5	R	R	R	M	M	M	M	M	M	M	M	M	M	M	
	O	AN/SMQ-11 Basic User	TBD	2				M	M	M							M	M	
	O	Basic OA Tactical Team Trainer	TBD	4	R	M	M	M	M	M	M	M	M	M	M	M	M	M	
EMERGENCY SURGE CAPABLE																			
MPLETE BY C2X	O	Naval Integrated Tactical Environmental System (NITES), AN/UMK-4(V)1 System Operator (SYSOP)	TBD	10													M	M	
	O	METOC Support for Chemical, Biological, Radiological, and Nuclear Effects (CBRNE)	TBD	2	R	M	M	R	R	M	R	R	R	R	R	R	M	M	
	O	Tactical Oceanography Workshop	K-2G-1146	2	R	M	M	R	M	R	R	R	R	M	M	M	R	R	
	O	Coordinated ASW Operations	K-2G-2502	5	R	R	R		R					R	R	R			
	O	METOC Support for Mine Warfare	TBD	1	R	M	M	R	M	R	R	R	R	M	M	M	R	R	

JOINT METOC TACTICAL APPLICATIONS COURSE

CIN: S-5A-0010
COURSE LENGTH: 5 Days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: This course covers organization and Concept of Operations (CONOPS) of Air, Surface, Undersea, Amphibious and Naval Special Warfare communities. Sensors, platforms, and weapons used by these warfare areas are addressed, as are associated Meteorology and Oceanography (METOC) impacts and thresholds. Discussion includes Tactical Decision Aids (TDA's) and software applications used for support.

Back Enlisted Track
Back Officer Track

METOC SUPPORT FOR AIR DEFENSE, SURFACE WARFARE AND INFORMATION WARFARE

CIN: TBD
COURSE LENGTH: 4 days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: This course covers organization and Concept of Operations (CONOPS) of the Air Defense (AD), Surface Warfare (SUW), and Information Warfare (IW) communities. Sensors, platforms, and weapons used by these warfare areas are addressed, as are associated Meteorology and Oceanography (METOC) impacts and thresholds. Discussion includes Tactical Decision Aids (TDA's) and software applications used for support.

Back Enlisted Track
Back Officer Track

METOC SUPPORT FOR STRIKE WARFARE

CIN: TBD
COURSE LENGTH: 4 Days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: This course covers organization and Concept of Operations (CONOPS) of the Strike Warfare (STW) community. Sensors, platforms, and weapons used by this warfare area are addressed, as are associated Meteorology and Oceanography (METOC) impacts and thresholds. Discussion includes Tactical Decision Aids (TDA's) and software applications used for support.

Back Enlisted Track
Back Officer Track

Basic OA Division Tactical Team Trainer

CIN: TBD
COURSE LENGTH: 4 Days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: Completed previously assigned strike courses as delineated by the PDD

INTENT: Learn the mechanics of operating with a Carrier OA division. Work with assigned Reserve OA Team that has just entered the training pipeline

PURPOSE: Integrate with a Carrier OA division team to learn how to better use their equipment through the use of canned scenarios.

Back Enlisted Track
Back Officer Track

Fallon Det Support during CAG Workup

CIN: N/A
INSTRUCTIONAL TRAINING LENGTH: **(Initial Certification)** 3 Weeks, to start mid-week the 1st week of CAG training and end mid-week on the 4th week of CAG training; (**Subsequent proficiency**/refresher training, 2 wks during last 2 wks of CAG training)
TRAINER: NPMOD Fallon
CLEARANCE: SECRET

PREREQUISITES: Completed Formal Strike Course Training

PURPOSE: Integrate with a carrier airwing, intel, planners, and METOC professionals. Understand how strike missions are planned and executed. Understand strike mission terminology. Become familiar with METOC requirements and impacts on the strike mission. Prepare and deliver strike MET

Back Enlisted Track
Back Officer Track

Introduction to Strike Operations Course (ISOC)

CIN: TBD
COURSE LENGTH: 5 Days
TRAINER: FITCPAC/Navy Marine Corps Intelligence Training Center Dam Neck
CLEARANCE: SECRET

PREREQUISITES: Completed Reserve Strike Briefer training pipeline
INTENT: Gain additional strike mission expertise

PURPOSE: This course will teach the basics of intelligence support to naval strike warfare operations. It is primarily aimed at non-intelligence professionals that work with the intelligence community to support strike operations in aircraft carrier intelligence center (CVIC) strike intelligence analysis cells (SIAC or STRIKE). Prime examples of such personnel are Aerographer's Mates (AG) and naval Meteorology and Oceanography (METOC) officers that will be assigned to afloat detachment on board carriers. On successful completion of this course of instruction, graduates will understand the fundamentals of adversary integrated air defenses and have a comprehensive understanding of the intelligence sources and methods involved in effectively supporting precision naval strike operations. This course is designed to give non-in r a better understanding of intelligence support to strike operations in

Back Enlisted Tra ck
Back Officer Tra ck

Intermediate OA Division Tactical Team Trainer

CIN: TBD
COURSE LENGTH: 4 Days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: Completed previous courses in the training pipeline as delineated by the PDD

INTENT: Learn the mechanics of operating with a Carrier OA division. Work with other members of your Reserve OA division team to refine your strike skills and equipment operation

PURPOSE: Integrate with a Carrier OA division team to learn how to better use their equipment through the use of canned scenarios.

Back Enlisted Track
Back Officer Track

Tactical Warfare Overview

CIN: K-2G-0032
COURSE LENGTH: 5 Days
TRAINER: FCTCLANT/PAC
CLEARANCE: SECRET

PREREQUISITES: No rating limitation for E7 and above. Maximum class size is 24. Paygrade E5 to 0-3. Rates CTR, CTT, FC, IS, OS, ST.

PURPOSE: To provide junior officers (O1-O3) and enlisted CIC watchstanders (E5-E9) with a broad and general overview of all areas in naval tactical warfare. To give a basic understanding of naval tactical capabilities and operations outside the student's area of specialty (i.e., a submarine junior officer/ enlisted Central Control watchstander will receive instruction in tactical warfare from surface, air and amphibious - as well as submarine - points of view).

Back Enlisted Track
Back Officer Track

METOC Support for Chemical, Biological, Radiological, and Nuclear Effects (CBRNE)

CIN: TBD
COURSE LENGTH: 2 Days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: The Meteorology and Oceanography (METOC) CBRNE course covers the fundamentals of Chemical, Biological, Radiological, Nuclear, and High Explosive Weapons of Mass Destruction (WMD) events. Focus is placed on the METOC and terrain influences on materials during and after release, and the latest Tactical Decision Aids (TDA's) used to support this area of concern.

Back Enlisted Track
Back Officer Track

Joint Maritime Tactics Course

CIN: K-2G-3009
COURSE LENGTH: 19 Days
TRAINER: TACTRAGRULANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: To provide senior officers tactical training to improve their proficiency in warfighting skills in joint combat and Naval Expeditionary Operations.

Back Enlisted Track
Back Officer Track

METOC Support for Naval Special Warfare

CIN: TBD
COURSE LENGTH: 3 days
TRAINER: NMOPDD LANT/PAC
CLEARANCE: SECRET

PREREQUISITES: None.

PURPOSE: To provide training on the organization and Concept of Operations (CONOPS) of the Naval Special Warfare (NSW) community. Sensors, platforms, and weapons used by this warfare area are addressed, as are associated Meteorology and Oceanography (METOC) impacts and thresholds. Discussion includes Tactical Decision Aids (TDA's) and software applications used for support.

Back Enlisted Track
Back Officer Track